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MGS-DC-30KVA-480-220-110

Power Substation - 25 KVA - 480V AC to 10 X 120V AC & 2 X 240V AC Outlets with GFCI – 480V Feed Thro

Product ID: 146443

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

This unit is Made In USA - Manufactured in Texas

MGS-DC-30KVA-480-220-110 Power Transformer	Ratings
Line-In Cord: 20` 4/4 SOOW Cord	UL 1640 Portable Power-Distribution Equipment
Line-In Cord Cap: Customer Provided	NEMA 3R Indoor or Outdoor Use
Primary Voltage: 480V 3-Phase	Made in the USA
Primary Disconnect: 480V 30A Fused @ 30A N3R, 480V 60A Fused @ 60A N3R	
Primary Panel: -	
Primary Breakers: -	
Primary Receptacles: (1) - ADR3034	
Primary Protection: Disconnect Switch, Weatherproof Covers	
Transformer: 25KVA 480V to 120/240V 1-Phase N3R	
Secondary Voltage: 120/240V 1-Phase	
Secondary Panel: 120/240V 125A MLO N3R	
Secondary Breakers: (2) 30A [240V[, (10) 20A [120V]	
Secondary Receptacles: (2) L6-30R [240V], (10) 5-20R [120V]	
Secondary Protection: GFCI (5-20R), Weatherproof Covers	
Form Factor: Square tube frame w/ 1/8" side walls, hinged access doors, skid pockets, top pick eye & locking 8” locking casters	
Frame Materials: Powder coated steel frame	
Dimensions: 48” X 48” X 62”	

Weight: 600 pounds

Features:

Max OCP Primary: 60A @ 480V

Max OCP Secondary: 125A @ 240V

Larson Electronics manufacture a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

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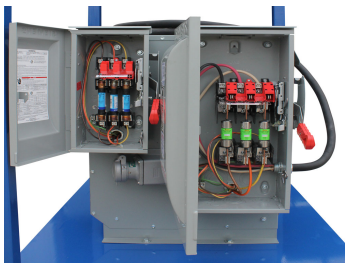
The Larson Electronics MGS-DC-30KVA-480-220-110 power distribution substation converts 480VAC electrical current into single phase 120/240VAC. This unit provides operators the ability to safely tap into and distribute 480VAC power from a variety of sources including generators and direct grid power.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

Portable Power Distribution Purpose and Use

The MGS-DC-30KVA-480-220-110 portable power distribution system gives operators the ability to power their 120V and 240V equipment from a single system. On the primary side, operators connect 480V line-in power via 20` 4/4 SOOW cord. Operators connect 480V equipment to one ADR3034 480V receptacle. On the secondary side, operators connect to two L6-30R, 240V receptacles for their 240V equipment and a ten 5-20R GFCI receptacles for 120V equipment.

Operation: The 20` 4/4 SOOW line-in cord brings 480V three phase power to the NEMA 3R 30-amp, 480V three phase primary disconnect, which contains three 30-amp time delay fuses protecting one 30-amp, 480V ADR3034 receptacle and passes 480V single phase through to the second primary disconnect. The NEMA 3R 60-amp, 480V single phase second primary disconnect contains two 60-amp time delay fuses protecting the 25 KVA transformer. The NEMA 3R 25 KVA transformer converts 480V power to 120/240V single phase and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 125-amp, 120/240V single phase main lug panel. This secondary panel contains two 30-amp, 240V breakers protecting two 30-amp, L6-30R twist-lock receptacles and ten 20-amp, 120V breakers protecting ten 20-amp, 5-20R duplex receptacles. All receptacles are equipped with weatherproof covers.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge



Protective Construction: Unlike many portable power distribution boxes made of plastic and utilizing thin gauge, low grade metals in their construction, this unit

is designed for serious use and is ruggedly constructed to withstand demanding conditions and heavy duty industrial applications. The transformer and load assembly is mounted on a 3/16" thick carbon steel mounting platform and the load center/distribution assembly is mounted to the standard 2" x 2" x 1/8" square carbon steel tubing frame, resulting in an extremely stable, durable and well protected power distribution platform. This model is equipped with forklift skid pockets, locking casters, and a top located lifting eyelet which allows easy lifting with cable or chain hooks. This can be replaced for an additional cost with stainless steel, hot dip galvanized steel, or aluminum depending on the customer's needs. Larger units are available upon request and can be equipped with skids or trailer mounted.

Certification: Larson Electronics is a UL 1640 panel shop and certified to build portable power distribution systems. All units are built in accordance to NFPA 70 (National Electric Code) and certified to UL 1640. All equipment is NEMA 3R rated for indoor and outdoor use and provide a degree of protection against dirt, water, and ice. NEMA 4 and NEMA 4x equipment can be equipped upon request.

Grounding: Transformer is grounded to the frame and we provide a grounding lug on the frame for the earth ground.

~Please check all motor loads for dual rated motors that will work 208 or 240.~

Applications: This power distribution system is ideal for indoor or outdoor use and applications including but not limited to, construction sites, plant maintenance, plant turnarounds, shows, exhibits, and shipyard operations. These power distribution systems are popularly used in applications where external power sources are often necessary. We also offer class rated transformers for use within explosion proof and hazardous location environments.

Custom Built Systems Available: Larson Electronics is a manufacturer and we can build portable power distribution systems to your specifications. Although we carry several models of portable power distribution systems in stock, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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Frequently Asked Questions (FAQ)



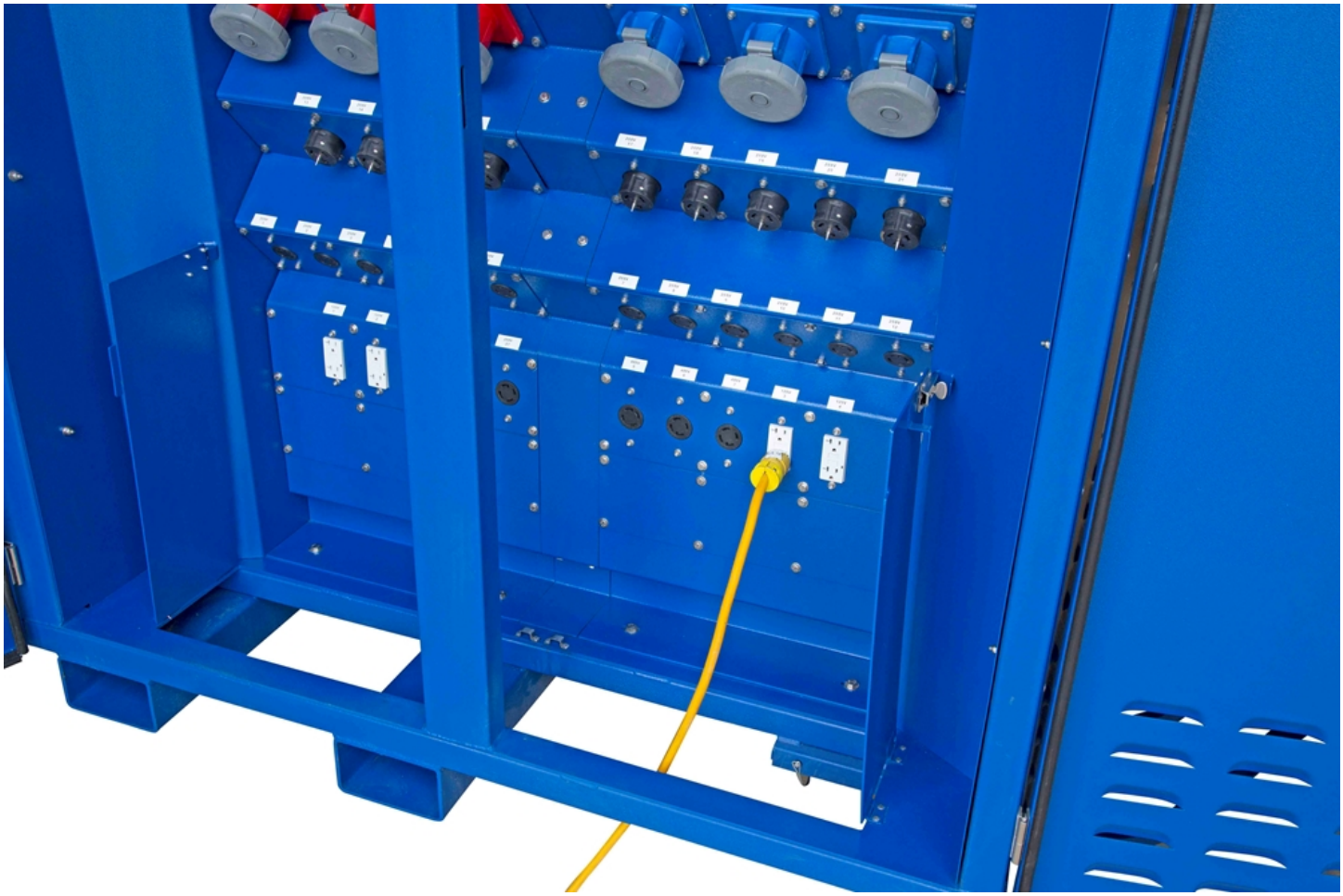
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Product ID: 146443

Harmonized System (HS) Code: 8504.21.0040

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- ANSI Certificate 1
- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Catalog Page - Product Series
- CE Certificate
- Certificate 1, Misc
- Certificate 2, Misc
- Certificate 5, Misc
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map